

承 认 书

CUSTOMER APPROVAL SHEET

供应商名称: 互连精密技术（深圳）有限公司

客 户 名 称:

物 料 规 格: 2.54mm金手指DIP180° PIN针外露3.00mm

互 连 料 号: AA18S020216C3

送 样 日 期:

承 认 书 编 号 : 20250311001

内部审批:

批准	审核	制作	签章
邓建辉	邓建辉	曾捷	

客户审批:

研发工程师	研发经理	CE	签章
确认结果: ☐ 合格 ☐ 不合格 ☐ 其它			

互连精密技术（深圳）有限公司

ADD:深圳市宝安区西乡街道劳动社区西乡大道和宝源路交汇处中央大道 c 座 18D

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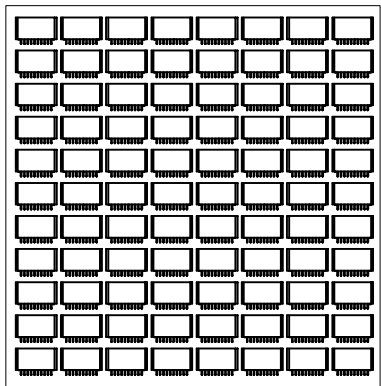
Website:www.conshare.com.cn

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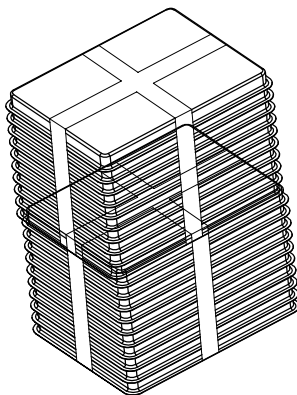
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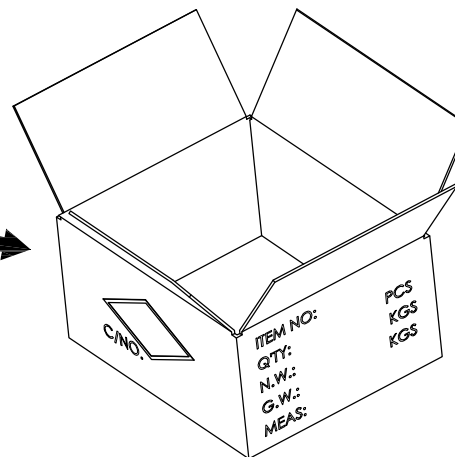
包装图



88 PCS/盘

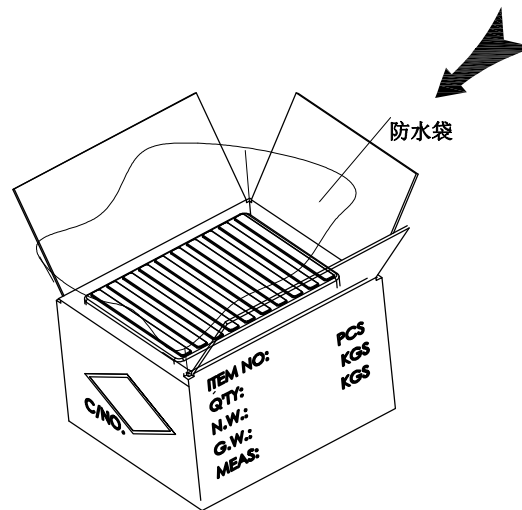
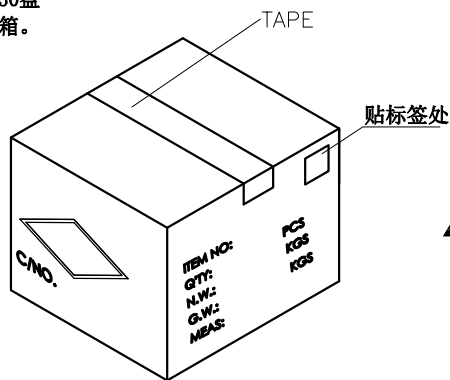


20盘



要求:

- 真空盒335*330, 不可有破损, 88PCS/盘。
- 纸箱390*390*300, 材质: K=K, 不可有破损, 加装防水PE袋及干燥剂。
(20*88PCS/盒=1760PCS/箱)
- 将装好产品的真空盒整齐叠放在一起, 共30盘
2640PCS, 放入纸箱中, 用封箱胶纸封好纸箱。



GENERAL TOLERANCES UNLESS SPECIFIED		PART NO.				
.X ± 0.35	X° ± 3°	AA18S020216C3				
.XX ± 0.25	X° ± 2°	APPROVED BY JACK	TITLE 2.54X5.08 SOLT DIP 180° PIN=3.0mm			
.XXX ± 0.15	XX° ± 1°	CHECKED BY MIKE				
CUSTOMER DRAWING		DWG NO.				
SIZE A4	UNITS MM[INCH]	DRAWN BY CC				
			SHEET 2:2	SCALE 1:1	REV 1	

FAI Measurement(量測報告)

Project Code(料號): AA18S020216C3

Rev(版本): A1

Conclusion: PASS

Testrer	Date	Check	Date	Approve	Date	檢驗人員
						杨艳梅
Material	模號	模穴數量	送測數量			
		8	5			
CODE	A	B	C	D	E	F
Measure Tool	游標卡尺	分厘卡尺	投影機	二次元尺寸量測機	高度規	其他

項次	尺寸規格	公差		量測數據							判定結果	量測工具	備註
		+Tol	-Tol	1	2	3	4	5					
1	27.94	0.25	0.25	27.90	27.91	27.90	27.91	27.90			OK	D	
2	1.80	0.25	0.25	1.80	1.79	1.80	1.80	1.80			OK	D	
3	2.54	0.25	0.25	2.54	2.54	2.55	2.55	2.54			OK	D	
4	22.86	0.25	0.25	22.83	22.84	22.84	22.83	22.83			OK	D	
5	30.94	0.25	0.25	30.90	30.91	30.90	30.90	30.91			OK	D	
6	16.40	0.25	0.25	16.40	16.41	16.40	16.41	16.42			OK	D	
7	0.60	0.25	0.25	0.61	0.60	0.61	0.62	0.61			OK	D	
8	16.70	0.25	0.25	16.71	16.70	16.72	16.72	16.70			OK	D	
9	3.00	0.25	0.25	3.00	3.01	3.00	3.00	3.01			OK	D	
10	8.50	0.25	0.25	8.51	8.50	8.51	8.52	8.51			OK	D	
11	5.08	0.25	0.25	5.09	5.08	5.09	5.08	5.09			OK	D	
12	1.00	0.15	0.15	1.01	1.02	1.01	1.01	1.02			OK	D	
13	10.00	0.25	0.25	10.01	10.02	10.00	10.01	10.00			OK	D	
14	5.00	0.25	0.25	5.05	5.00	5.04	5.04	5.05			OK	D	

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Product Specification 【產品規範】		Subject 【主題】	金手指 SERIES	
Document No: 【文件編號】	HL-QA-005	Rev: 【版本】	A/0	Page 1 of 9 【頁碼】

Revision Record 【修訂記錄】					
Rev 【版本】	Date 【日期】	Page 【頁碼】	ECN No.	Description of Change 【說明】	
A/0	2023/09/19	10		NEW RELEASE	

Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Content Rev	A/0																			
Attachment Rev																				

Approved by	Andy	Checked by	Jack	Prepared by	FDL
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一 SCOPE (適用範圍): 1.Contents This specification covers the performance, tests and quality requirements for the 金手指系列 Connector 本規範適用金手指系列 Connector, 內容包括:物料規格,產品規格及電氣特性,機構特性,環境特性及測試方式. 二 Qualification When tests are performed on the subject product line, the procedures specified specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing. 所有测试样品从生产线提取,测试要求按主品规范来测试, ,产品的检测是按该产品的检测计划和工程图面要求来执行。 三 Applicable Document (适用文件) The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence. 以下部分测试规范来源于产品规范, 如有不相一致之处, 以此产品规范具体要求为准。 四 Requirements 需求 4.1DESIGN AND CONSTRUCTION 设计与开发 Product shall be of the design, construction and physical dimensions specified on the applicable product drawing. 产品从设计到开要符合产品规范和工程图面要求。 4.2MATERIALS (材质) Housing 胶芯: PA10T BLACK Contact 端子: C7025 五 RATING 电气特性 Current 額定電流:: 12A Max/1 contact Temperature 适用温度: - 40 °C to +105 °C(Storage) -25 °C to +85°C(Operating) 六 Perfomance REQUEIREMENT and Test description 其它特性 The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. All tests shall be performed at ambient environmental conditions. 产品需满足规范所要求的机械性能、电气特性及环境测试要求,

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Test Item 项目 (Frequency)		Test Condition 测试条件	Requirement 测试要求
1	Examination of Product (每批全检)	Meets requirements of product drawing. No physical damage.	Visual inspection. 目视检查
Electrical Requirement 电气性能			
2	Contact Resistance 接触阻抗	Mated connectors, Contact : measure by dry circuit, 20 mVolts maximum.,10mA. Shell : measured by open circuit, 5 Volts maximum ,100mA. (ANSI/EIA-364-06B)	Initial Contact resistance excluding conductor resistance: 20 milliohms maximum . (Target design value)
3	Dielectric withstanding Voltage 耐电压	Unmated connectors, apply 750 VDC /1 minute between adjacent terminal and ground. (ANSI/EIA-364-20C, Method A)	No Breakdown
4	Insulation Resistance 绝缘阻抗	Unmated connectors, apply 500 Volts DC between adjacent terminal or ground. (ANSI/EIA 364-21C)	1000 megaohms minimum (unmated)
5	Thermal Shock	10 cycles of: a) -55°C for 30 minutes b) +85°C for 30 minutes (ANSI/EIA-364-32C, Condition I)	A:Appearance No Damage B:Contact Resistance for Contact : Change from initial value: 20 milliohms maximum.
Mechanical Requirement 机械性能			
6	Connector Mating Force 插入力	Initial:133.28N(13.62Kgf) Max.	Operation Speed: 25.4mm/min. Measure the force required to mate connector. ANSI/EIA-364-13

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7	Connector Unmating Force 拔出力	Final:9.3N(0.95Kgf) Min.	Operation Speed: 25.4 mm/min. Measure the force required to unmate connector. ANSI/EIA-364-13
8	Durability 耐插拔	Operation Speed: 250 cycles/hour. Durability Cycles: 50Cycles EIA-364-9C	Contact Resistance: 20m Ohm Max(final)
9	Vibration 振动实验	Values for test-condition: 5.0Hz-0.00200g ² /Hz 12.5Hz-0.24800g ² /Hz 77.5Hz-0.00320g ² /Hz 145.0Hz-0.00200g ² /Hz 200.0Hz-0.01180g ² /Hz 230.0Hz-0.00032g ² /Hz 1000.0Hz-0.00002g ² /Hz {Grms=1.81} Duration: 8 hours in each (Total of 24 hours) X, Y, Z axis. Electrical load: 100mA DC current shall be flowing during the test. (SAE/USCAR-2 5.4.6)	A:Appearance:No Damage B:Contact Resistance::Contact : Change from initial value: 20 milliohms maximum. Shell Part : Change from initial value: 20 milliohms maximum. C:Discontinuity:1 μsec maximum.

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10	Physical shock (每年一次)	Pulse width: 10msec Waveform: half sine, 343m/s ² {35G}, 10strokes in each X, Y, Z axis (SAE/USCAR-2 5.4.6)Discontinuity: 1μsec max.	A:Appearance:No Damage B:Contact Resistance:: Contact : Change from initial value: 20 milliohms maximum. Shell Part : Change from initial value: 20 milliohms maximum. C:Discontinuity::1 μsec maximum.
11	Solder ability 沾锡性	1. Test method complies with EIA-364-52. 測試方法依據 EIA- 364-52. 1.The connector shall be immersed into solder of 245±5℃ for 5.0±0.5 sec. 本產品端子浸在溫度 245±5℃錫爐中,沾錫 5±0.5 sec.	A new uniform coating of solder shall cover 95% of the surface being immersed 焊錫面積 95%以上

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Environmental Requirements 环境要求:				
12	Resistance to Soldering Heat 耐焊锡热性	1.Test method complies with EIA-364-56. 測試方法依據 EIA-364-56. 2.1Connector mounted on PCB, Solder tail shall be immersed in soldering bath at temperature of $265\pm5^{\circ}\text{C}$ for 10.0 ± 0.5 sec (be Applied SMT Type). 產品貼於 PCB 板, PCB 板與連接器同處於溫度 $265\pm5^{\circ}\text{C}$ 中,時間 10.0 ± 0.5 sec(適用於 SMT 型). 2.2.Connector mounted on PCB, Solder tail shall be immersed in soldering bath at temperature of $265\pm5^{\circ}\text{C}$ for 5.0 ± 0.5 sec(be Applied DIP Type). 本產品穿過 PCB 板, 焊接尾部浸在溫度 $265\pm5^{\circ}\text{C}$ 錫爐中浸錫 5.0 ± 0.5 sec(適用於 DIP 型). 3. Soldered manually at $390\pm10^{\circ}\text{C}$ for 3.0 ± 0.5sec. 2 cycles. 手焊作業時,焊槍溫度 $390\pm10^{\circ}\text{C}$, 時間 3.0 ± 0.5 秒,來回兩次.		No physical damage shall occur.
13	Thermal Shock 热冲击	Mated Connector $-55\pm3^{\circ}\text{C}$(30 minutes), $+85\pm2^{\circ}\text{C}$(30 minutes) Perform this 1 cycle, repeat 10 cycles ANSI/EIA-364-32C condiction		Withstand Voltage: 750VAC Insulation resistance:1000 MΩ Min.
14	Humidity 恒温恒湿	A:Mate connectors together and perform the test as Appearance No Damage follows. Temperature : -25 to $+85^{\circ}\text{C}$ Relative Humidity : 90 to 95% Duration : 4 cycles (96 hours)		A: Appearance:No Damage B: Contact Resistance::Contact :Change from initial value: 20 milliohms maximum. C: Discontinuity:1 μsec maximum.

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		Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be performed. (ANSI/EIA-364-31B) B:Unmated each connectors and perform the test as follows. Temperature : -25 to +85°C Relative Humidity : 90 to 95% Duration : 4 cycles (96 hours) Upon completion of the test, specimens shall be conditioned at ambient room conditions for 24 hours, after which the specified measurements shall be performed. (ANSI/EIA-364-31B)	D: Dielectric Withstanding Voltage and Insulation Resistance:Conform to item of Dielectric Withstanding Voltage and Insulation Resistance
15	Temperature Life (Heat Aging)耐温寿命	Mated Connector 85°C , 250 hours, EIA-364-17B.	See Note
16	Salt Spray(每个 LOT) 喷水盐雾	Subject mated connectors to 35+/-2 °C and 5+/-1% salt condition for 24 hours. After test, rinse the sample with water and recondition the room temperature for 1 hour. EIA-364-26B.	No detrimental corrosion allowed in contact area and base metal exposed.
17	Current Rating	测试电流: 12 Amp	12A 电流通电平稳后, 温升值不得超过 30°C

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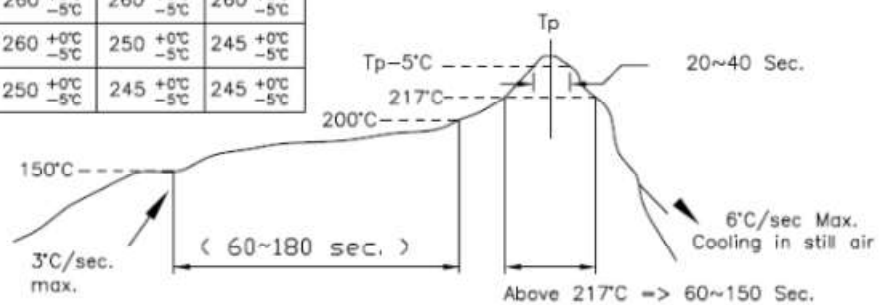
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RECOMMENDED SOLDERING PROFILE:

Lead-Free-IPC/JEDEC-STD-020C

Solder Heat Resistance (Lead-Free)

Package Thk	Tp Volume mm ³		
	<350	350~2000	>2000
<1.6mm	260 +0°C -5°C	260 +0°C -5°C	260 +0°C -5°C
1.6~2.5mm	260 +0°C -5°C	250 +0°C -5°C	245 +0°C -5°C
≥2.5mm	250 +0°C -5°C	245 +0°C -5°C	245 +0°C -5°C



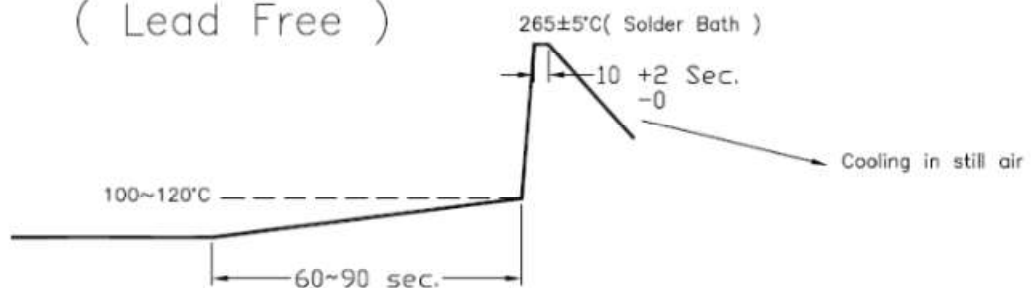
- * Time 25°C to Peak Temp. ---- 8 Minutes Max.
- * Time within 5°C of Actual Peak Temp. -- 20~40 Seconds

(REFLOW SOLDERING CONDITION)

Lead-Free-JESD22-B106C

Lead-Free

Solder Heat Resistance for PTH device (Lead Free)



- * The immersion and emersion rates shall be 25±6/sec.

(WAVE SOLDERING)

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	十 TEST SEQUENCE (測試順序)										
ITEM 序號	TEST DESCRIPTION 測試內容		TEST SEQUENCE 測試頻次								TEST METHODS 測試方法
		A	B	C	D	E	F	G	H	J	
1	EXAMINATION FOR PRODUCT 外觀	1,9	1,10	1,5	1,9	1,4	1,9	1,9	1	1,9	
2	CONTACT RESISTANCE 接觸阻抗	2,8	2,9	2,4	2,8		2,8	2,8	2	2,8	
3	DIELECTRIC WITHSTANDING VOLTAGE 耐電壓	4,6	4,7		4,6		4,6	4,6	3	4,6	
4	INSULATION RESISTANCE 絕緣阻抗	3,7	3,8		3,7		3,7	3,7		3,7	
5	TEMPERATURE LIFE 耐溫壽命				5						
6	INSERTION FORCE 插入力										
7	WITHDRAW FORCE 拔出力										
8	DURABILITY 耐插拔		6								
9	VIBRATION 振動試驗							5			
10	SOLDERABILITY 沾錫性					3					
11	RESISTANCE TO SOLDER HEAT 耐焊錫熱性					2					
12	THERMAL SHOCK 熱衝擊試驗									5	
13	HUMIDITY 恆溫恆濕	5									
14	TEMPERATURE LIFE 耐溫壽命				5						
15	SALT SPRAY 鹽水噴霧			3							
16	Current Rating 溫升								4		
17	SAMPLE SIZE 樣品數量	5	5	5	5	5	5	5	3	5	

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互连精密技术（深圳）有限公司

CONSHARE TECHNOLOGY CO., LTD

可靠性测试报告

PRODUCT TEST REPORT

盐雾测试（Salt Spray Test）PAGE:10/10REV:A									
客户 (Customer)		东莞市动力之星电子有限公司		产品名称 (Part name)			2. 54mm金手指DIP180° PIN针 外露3. 00mm		
测试编号 (Test NO.)		F20250211-002		产品料号 (Part NO.)			AA18S020216C3		
送樣人(單位) (REQUIRED BY)		工程部		测试环境 (Test environment)			22.5°C/60%RH		
测试地点 (Testing location)		LAB		实验仪器 (Test machine code)			盐雾测试机 接触阻抗测试仪		
测试时间 (Testing time)		2025. 02. 11		样本数量 (Sample QTY)			5PCS		
完成时间 (Finished time)		2025. 2. 14		测试标准 (Ref test method)			SPEC（HL-QA-005） (EIA-364-26B)		
序号 (NO.)	测试项目 (Item)	测试标准 (Requirement)	检测结果（Test result）						判定 (Result)
			样品	样品1	样品2	样品3	样品4	样品5	
1	产品检查 (测试前) Examination of Product (Before the test)	外观无损伤 There shall be no damage on appearance		无损伤 No damage					OK
2	接触阻抗测试 (测试前) Contact Resistance (Before the test)	初始时最大20 毫欧姆 测试后30毫欧姆 20mΩ Max(Initial) 30mΩ Max After the test	PIN 1	11. 84	11. 89	11. 88	11. 88	11. 89	OK
			PIN 2	11. 94	12. 02	12. 03	11. 94	11. 79	OK
			PIN 3	11. 89	11. 95	11. 94	11. 96	11. 99	OK
			PIN 4	11. 95	11. 94	11. 95	12. 01	12. 01	OK
			PIN 5	11. 94	11. 93	11. 98	12. 02	11. 93	OK
			PIN 6	11. 94	11. 95	11. 96	11. 92	11. 92	OK
3	盐雾测试 Salt Spray Test	将连接器置于温度35±2摄氏度，盐雾 浓度5±1%条件下24小时。 外观：无明显生锈、发黑、氧化现象 Subject mated connectors to 35±2 °C and 5±1% salt condition for 24 hours after test Appearance:By visual inspection without noticeable rust		无明显生锈、发黑、氧化现象 By visual inspection without noticeable rust					OK
4	接触阻抗测试 (测试后) Contact Resistance (After the test)	初始时最大20 毫欧姆 测试后30毫欧姆 20mΩ Max(Initial) 30mΩ Max After the test	PIN 1	14. 92	14. 99	14. 92	14. 99	14. 95	OK
			PIN 2	14. 90	14. 97	14. 99	14. 93	15. 02	OK
			PIN 3	14. 92	14. 91	14. 93	14. 91	14. 98	OK
			PIN 4	14. 92	14. 81	14. 93	14. 87	14. 88	OK
			PIN 5	14. 92	14. 93	14. 82	14. 83	14. 85	OK
			PIN 6	14. 93	14. 92	14. 85	14. 89	14. 83	OK
5	产品检查 (测试后) Examination of Product (After the test)	外观无损伤 There shall be no damage on appearance		无明显生锈、发黑、氧化现象 By visual inspection without noticeable rust					OK

Approved: Mr. Deng

Checked: Mr. Zeng
HL-W37-R01 REV:A1

Test Report

No.: CANEC24004695119

Date: Mar 27, 2024

Page 1 of 8

Client Name: DONGGUAN FUSHENG COMPOSITE MATERIALS CO.,LTD

Client Address: ROOM 101,NO. 48,QIAOLI SOUTH GATE ROAD,CHANGPING TOWN,DONGGUAN CITY

Sample Name: PA10T

Model No.: PA10T

Client Ref. Information: TPPA, BN1101,BN1102, BN1103, BN1104,BN1105, BN1106, FS1101, PA9T GW2330 ,GW1458,GP2450, PA46, PA4T, PA6, PA6T , PA66, PPA,(4133. 1133. 6135.) HTN 52G35,

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-010052

Sample Receiving Date: Mar 15, 2024

Testing Period: Mar 15, 2024 ~ Mar 25, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zm Guan

Zm Guan

Approved Signatory

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1EB59BDF



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No.: CANEC24004695119

Date: Mar 27, 2024

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0046951-0001.C001	Black plastic grains

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	19
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Report

No.: CANEC24004695119

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Test Item(s)	Limit	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Remark: Results & photo(s) of this report refer to test report CANEC24004695101.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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Test Report

No.: CANEC24004695119

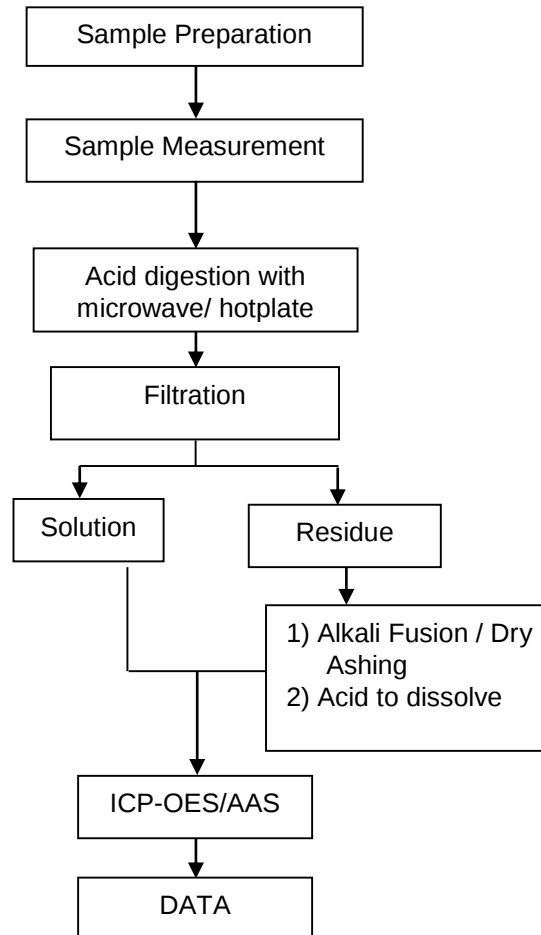
Date: Mar 27, 2024

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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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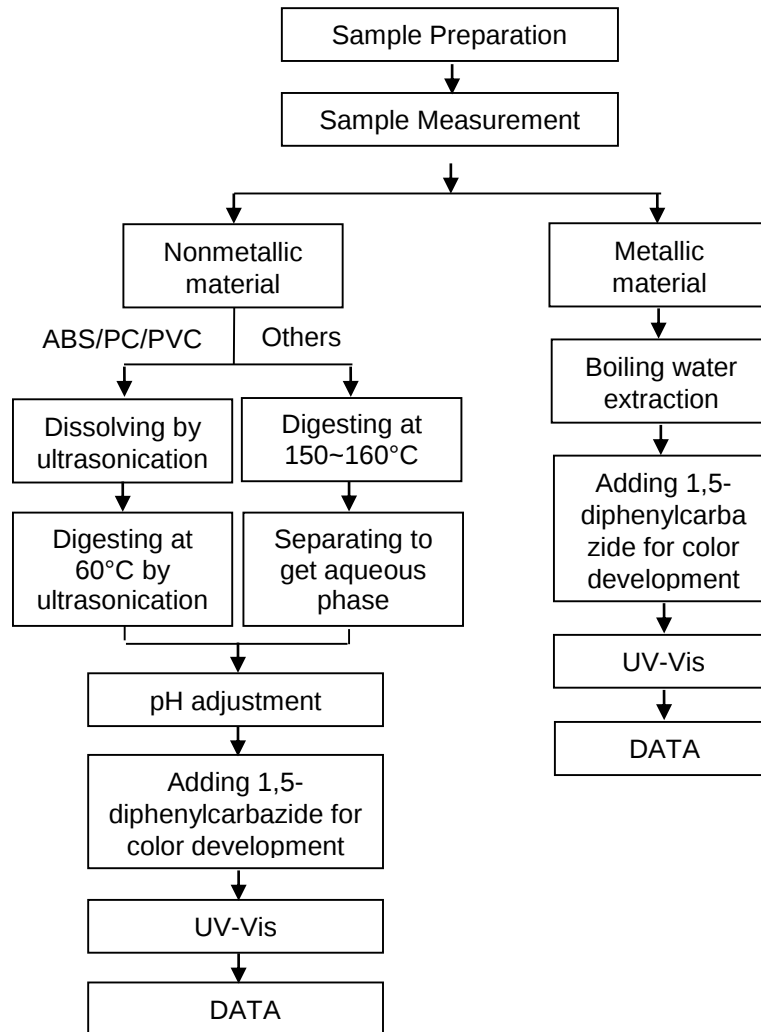
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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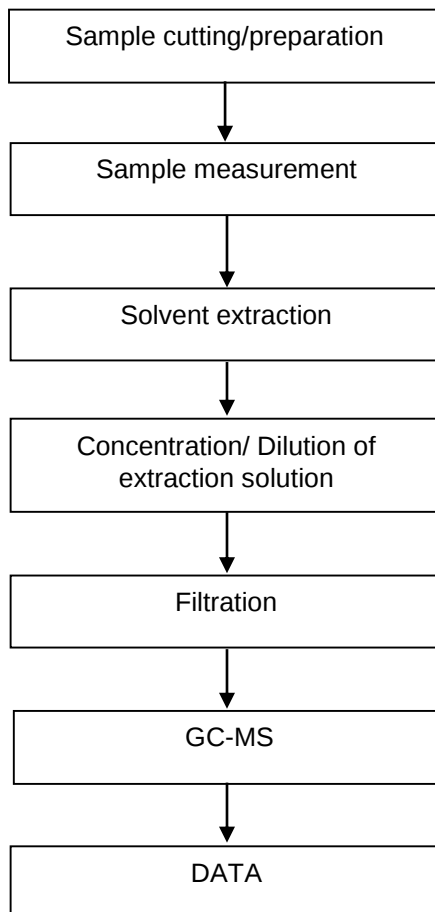
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PBB/PBDE Testing Flow Chart



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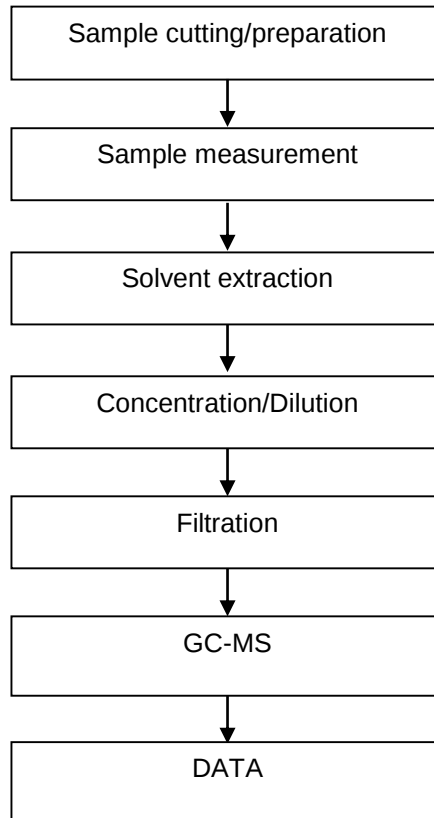
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No.: CANEC24004695119

Date: Mar 27, 2024

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Phthalates Testing Flow Chart



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Test Report

No.: CANEC24004695119

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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***



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检测报告

编号: SHAEC24014462006

日期: 2024 年 07 月 08 日

第 1 页, 共 9 页

客户名称: 浙江惟精新材料股份有限公司

客户地址: 浙江省绍兴市杭州湾上虞经济技术开发区盛兴路 27 号

样品名称: WK70250(C7025/C70250)

以上样品及信息由客户提供。

SGS 工作编号: TIC1020240702102306V4NE

样品接收时间: 2024 年 07 月 02 日

检测周期: 2024 年 07 月 02 日 ~ 2024 年 07 月 08 日

检测要求: 根据客户要求检测。

检测方法: 见后续页。

检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合
元素	见检测结果

通标标准技术服务(上海)有限公司
授权签名

盛雯舒

Sue Sheng 盛雯舒
批准签署人

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检测报告

编号: SHAEC24014462006

日期: 2024 年 07 月 08 日

第 2 页, 共 9 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A3	SHA24-0144620-0001.C003	铜色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A3
铅 (Pb)	1000	mg/kg	2	11
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND



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Testing Center-Chemical Laboratory

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检测报告

编号: SHAEC24014462006

日期: 2024 年 07 月 08 日

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检测项目	限值	单位	MDL	A3
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于 $0.10 \mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

元素

检测方法: 参考 US EPA 3050B:1996, 采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A3
锑(Sb)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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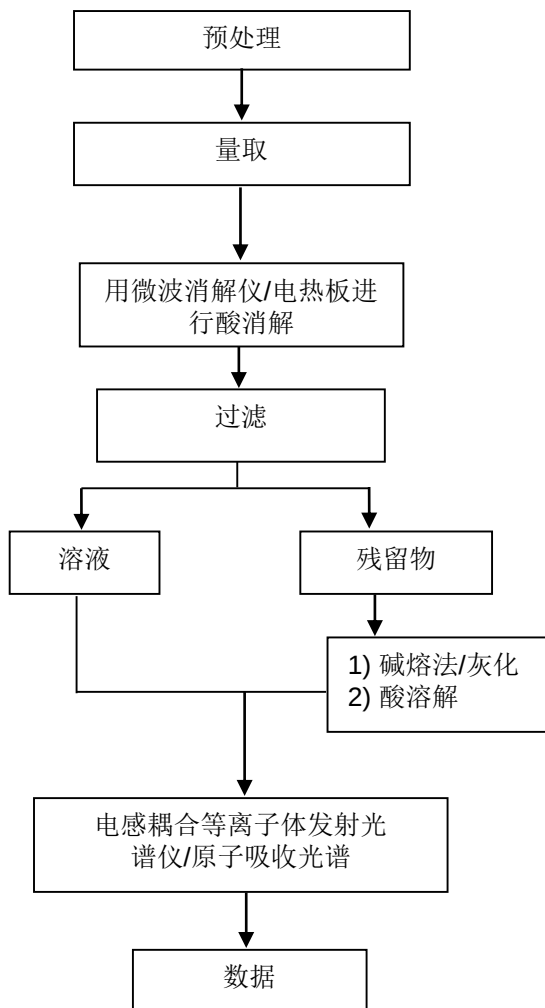
日期: 2024 年 07 月 08 日

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附件

元素检测流程图

样品按照下述流程被完全消解



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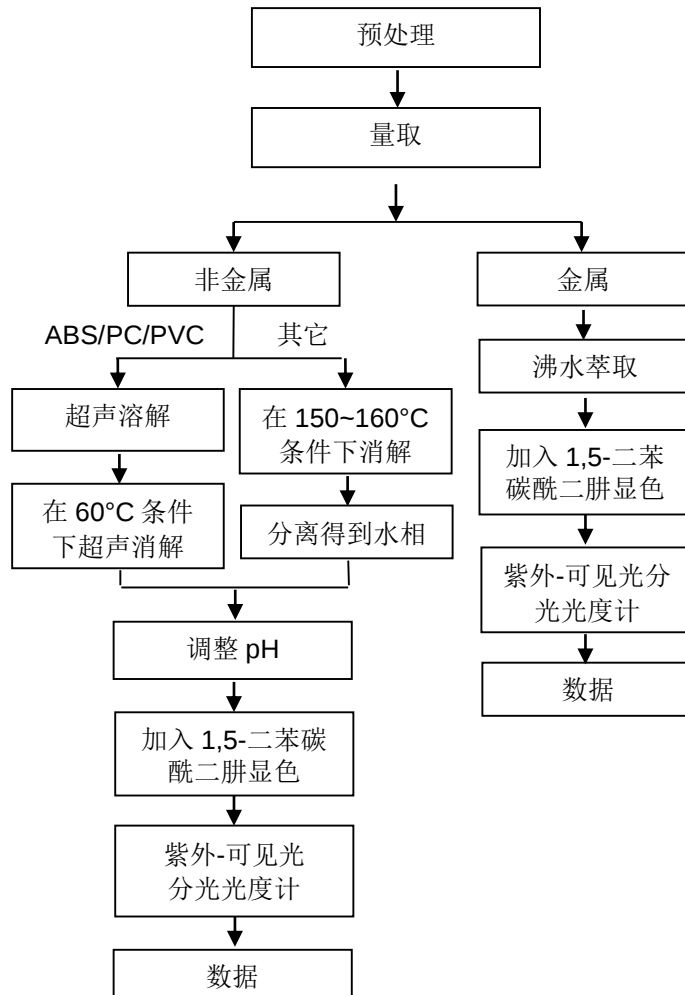
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六价铬检测流程图



检测报告

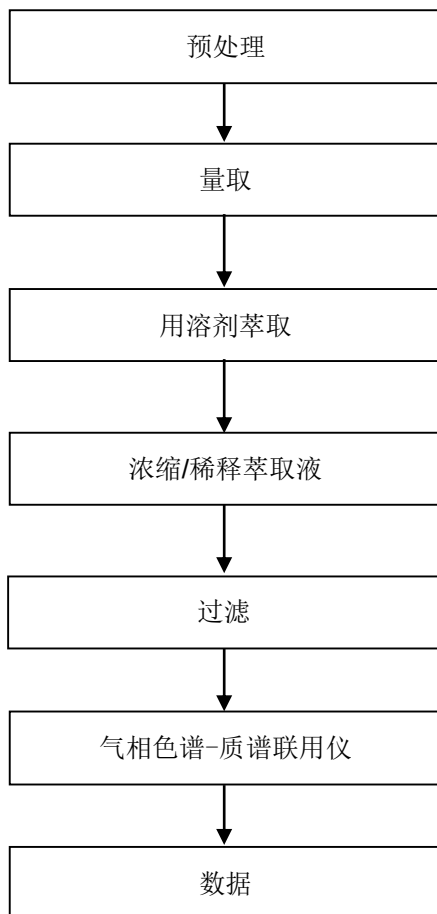
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PBB/PBDE 检测流程图



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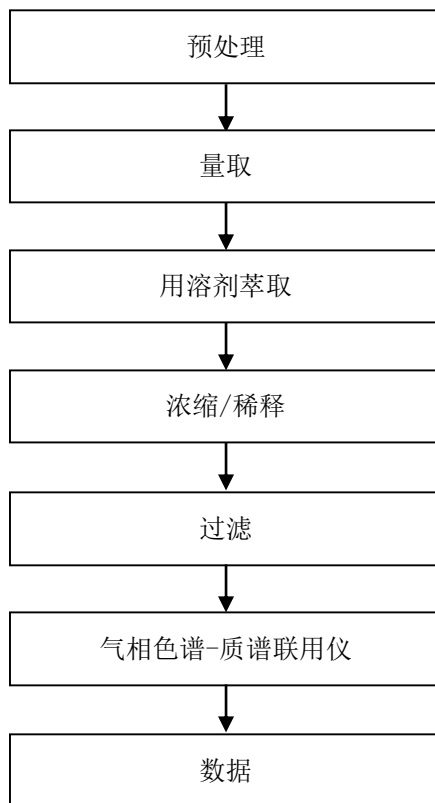
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Phthalates 检测流程图



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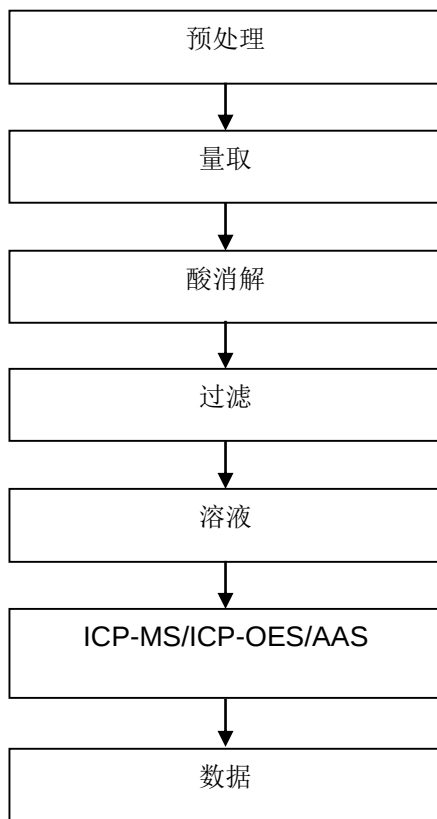
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元素检测流程图



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